

What is Claimed Is:

1. A method for synchronizing at least two users, each of the users to be synchronized having a respective individual timer, the users being connected by at least one communications link, at least one event being transmitted for synchronization over the communications link, the method comprising the steps of:

determining, by a first user, a first global time as a function of the at least one event;

determining, by a second user, a second global time as function of the at least one event;

transmitting, by the first user and the second user, the first global time and the second global time over the communications link;

determining, by each of the first user and the second user, an overall global time using the first global time and the second global time; and

synchronizing, by each of the first user and the second user, the respective individual timer using the determined overall global time.

2. The method according to claim 1, wherein each of the first user and the second user determine the overall global time in the same manner.

3. The method according to claim 1, wherein the at least one event is transmitted repeatedly over the communications link.

4. The method according to claim 1, wherein the synchronizing step further comprises:

approximating shapes of at least one of a first global time curve and a second global time curve between two events with the shape of an overall global time curve determined by at least one of the first user and the second user, wherein the approximated shapes of the curves are used in

synchronizing each respective individual timer.

5. A method for synchronizing users, each user to be synchronized having a respective individual timer, the method comprising the steps of:

connecting a first number of users to be synchronized by a communications link;

transmitting on the communications link at least one event for synchronization;

determining, by each of the first number of users, a respective global time as a function of the at least one event;

transmitting on the communications link by each of a second number of the users to be synchronized the respective global time, the second number being smaller than the first number;

determining by the users to be synchronized, an overall global time using the transmitted respective global times; and

synchronizing, by each of the users to be synchronized, the respective individual timer using the determined overall global time.

6. The method according to claim 5, further comprising:

determining a correction quantity from shapes of at least one of a first global time curve and a second global time curve; and

approximating the shape of at least one of the first global time curve and the second global time curve using a shape of an overall global time curve and the correction quantity by fitting, at least one of a maximum value and a minimum value being predefined for the correction quantity.

7. The method according to claim 1, further comprising:

predefining a shape;

determining correction quantity using the different shape and a shape of an overall global time curve; and approximating a shape of at least one of a first global time curve and a second global time curve using the correction quantity.

8. A system for synchronizing at least two users, each user to be synchronized having a respective timer, the at least two users being connected by at least one communications link, an event for synchronization being transmitted on the communications link, the system comprising:

a first arrangement at the first user determining a first global time as a function of the event;

a second arrangement at the second user determining a second global time as a function of the event;

a respective transmitter at each of the first user and the second user transmitting the first global time and the second global time;

a determination arrangement at each of the first user and the second user determining an overall global time from the first global time and the second global time; and

a synchronizer at each of the first user and the second user synchronizing the respective timer using the overall global time.

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